CLAIMS

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- 1. A process for the production of propylene starting from mixtures of hydrocarbons, prevalently olefins, the above hydrocarbons having a boiling point ranging from -15°C to +80°C, which comprises putting the above mixture of hydrocarbons in contact, under cracking conditions, with a large-pore zeolite having a molar ratio Silica/Alumina lower than 200.
- 2. The process according to claim 1, characterized in that the mixture of hydrocarbons has a boiling point ranging from -12°C to $+60^{\circ}\text{C}$.
 - 3. The process according to claim 1, characterized in that the zeolite is a ZSM-12 zeolite.
- 4. The process according to claim 3, characterized in that the ZSM-12 zeolite has a molar ratio Silica/Alumina ranging from 50 to 150.
 - 5. The process according to claim 1, characterized in that the mixture of hydrocarbons comprises from 30% to 100% by weight of olefins.
- 20 6. The process according to claim 5, characterized in that the mixture of hydrocarbons has a content of 40% to 85% by weight of olefins.
 - 7. The process according to claim 1, characterized in that the process is carried out at a temperature ranging from 400°C to 750°C .

- 8. The process according to claim 7, characterized in that the temperature ranges from $450\,^{\circ}\text{C}$ to $700\,^{\circ}\text{C}$.
- 9. The process according to claim 8, characterized in that the temperature ranges from 500°C to 650°C .
- 5 10. The process according to claim 1, characterized in that it is carried out at a weight hourly space velocity (WHSV) ranging from 0.1 h^{-1} to 1,000 h^{-1} .
 - 11. The process according to claim 10, characterized in that the weight hourly space velocity ranges from 0.5 h^{-1} to 100 h^{-1} .
 - 12. The process according to claim 11, characterized in that the weight hourly space velocity ranges from 0.8 h^{-1} to 50 h^{-1} .

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